CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18

30.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.09.2017	30.09.2017	8.085	478.2	21.25
2	01.09.2017	30.09.2017	8.127	486.2	21.61
3	01.09.2017	30.09.2017	8.324	518.2	23.03

*Information is furnished by the Customer/Representative.

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18

19.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2017	19.09.2017	8.108	499.6	22.20
2	22.08.2017	19.09.2017	8.267	520.7	23.14
3	22.08.2017	19.09.2017	8.329	511.4	22.73

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18

19.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2017	19.09.2017	8.058	488.5	21.71
2	22.08.2017	19.09.2017	8.428	491.2	21.83
3	22.08.2017	19.09.2017	8.204	507.3	22.55

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 16.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2017	16.09.2017	8.128	476.2	21.16
2	19.08.2017	16.09.2017	8.064	490.2	21.79
3	19.08.2017	16.09.2017	8.450	515.3	22.90

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18

16.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2017	16.09.2017	8.146	496.5	22.07
2	19.08.2017	16.09.2017	8.207	519.2	23.08
3	19.08.2017	16.09.2017	8.365	516.8	22.97

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14.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
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* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2017	14.09.2017	8.169	492.5	21.89
2	17.08.2017	14.09.2017	8.225	519.2	23.08
3	17.08.2017	14.09.2017	8.341	522.4	23.22

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* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2017	14.09.2017	8.258	505.8	22.48
2	17.08.2017	14.09.2017	8.369	480.9	21.37
3	17.08.2017	14.09.2017	8.476	511.5	22.73

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11.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
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* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2017	11.09.2017	8.193	500.8	22.26
2	14.08.2017	11.09.2017	8.243	519.5	23.09
3	14.08.2017	11.09.2017	8.357	523.8	23.28

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AE-13

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* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2017	11.09.2017	8.247	487.2	21.65
2	14.08.2017	11.09.2017	8.309	476.5	21.18
3	14.08.2017	11.09.2017	8.147	513.4	22.82

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AE-13

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 10.08.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	10.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.45	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 10.08.2017

TEST REPORT ON REINFORCEMENT STEEL

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* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	10.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.25	O.K	O.K

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Civil-Tech Consultants & Engineers Bangalore

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 10.08.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	10.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/AGG/GR/2017-18 08.08.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
*** Name of Work**	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	05.08.2017
Date of Testing	:	08.08.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	34.56	30-70	0-20
10	14.00	10-35	0-5
4.75	3.52	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AE-IR

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Technical Manager

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/SAND-Gradation/2017-18 08.08.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer, Shettyhalli** Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of Work	:	Improvements and Asphalting to main and cross roads at BHEL Mini Colony in Ward No.13, in Shettyhalli Sub Division (2nd call) BBMP, Bangalore.
* Reference	:	EE/DD/WO/126/2016-17 Dated: 21.02.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	05.08.2017
Date of Testing	:	08.08.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	74.00	60-95	75-100	85-100	95-100
1.18	53.20	30-70	55-90	75-100	90-100
600 Micron	28.50	15-34	35-59	60-79	80-100
300 Micron	13.10	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AE-13

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